

Workplace Alaska

Class Specification Radiological Health Specialist I

Created:
10/27/1997 by Adrienne Snow
Finalized on:

AKPAY Code: P5415
Class Outline Cat: B
Approved by:

Class Code: PG0671
Class Range: 18
Class Status: Active

Category:
Original Date: 12/01/1978

Class Title: Radiological Health Specialist I
Use MJR Form: Standard

Original Comments:
Original

Subsequent Revision Dates/Comments:
09/30/1993 - (CD/NC) Title and Code Change (Radiological Phycist; 2450), expanded to two level series
09/25/2008 - Workplace AK spec revision: Added Census Job Code and AKPAY Code fields; Replaced Category field with Class Outline Category; Updated EEO4, SOC, and Class Code fields; Removed DOT field.

Last Update: **EEO4:** B **SOC:** 29-9011 **Census:** 02

Last Update Comments:

Definition:

Under general direction, positions plan, implement and/or administer a comprehensive statewide radiation protection program covering ionizing and non-ionizing sources of radiation.

Distinguishing Characteristics:

This series is distinguished by the role in reducing unnecessary ionizing and non-ionizing radiation exposure through registration and safety inspection of radiation sources, including uses in the healing arts, industry, research, and education.

Radiological Health Specialist I is the full performance level responsible for carrying out timely inspections of radiographic equipment and sources of radiation to reduce radiation exposure to the public.

Examples of Duties:

Conducts on-site inspections of ionizing radiation sources throughout the state; investigates complaints; ensures radiation sources meet minimum standards and are operated in compliance with Alaska Radiation Protection Regulations; prepares technical reports of inspections and investigations; makes recommendations for minimizing radiation exposure and improving diagnostic results in the healing arts; takes action to ensure compliance through enforcement of applicable regulations.

Implements radon public information and home monitoring program; prepares associated grant proposals and program reports for the U.S. Environmental Protection Agency; develops RSA's with public agencies; interprets results and makes recommendations regarding radon reduction techniques.

Inspects and evaluates biological hazards associated with non-ionizing radiation sources such as laser, cathode ray tube equipment, microwave ovens, microwave and radio-frequency transmitters.

Provides input on budgeting or program planning, identification of present and potential radiological health problems, and radiation protection policies or legislation.

Prepares responses to requests for information and inquiries.

Maintains files of publications and technical information related to radiological health and maintains up-to-date knowledge on new, rapidly developing sophisticated technologies.

Coordinates health aspects of Naturally Occurring Radioactive Material (NORM) (e.g. material occurring naturally in the environment which is radioactive, i.e., uranium).

Inspects, evaluates and prepares reports for mammography units in the state. Implements mammography health and safety programs.

Participates in meetings and conferences with local officials, professional groups, industry representatives and governmental agencies regarding radiological health problems. Lectures and provides training and consultative services to professional groups, other state and local agencies, and the public.

Responds, and at the higher level, coordinates response to incidents and accidents involving radioactive materials; provides technical expertise regarding appropriate actions in emergency response.

Knowledge, Skills and Abilities:

Considerable knowledge of principles, practices and current developments associated with radiological health and safety.

Considerable knowledge of national radiation protection policies and standards, radiation sources.

Considerable knowledge of standard methods of measurements and effects of ionizing and non-ionizing radiation, safety inspection procedures, and use and maintenance of radiological monitoring equipment.

Considerable knowledge of proper design, calibration and operation of equipment producing radiation.

Considerable knowledge of radioisotope use, handling, storage and disposal.

Considerable knowledge of environmental impact of radiation, physical and biological effects of radiation.

Considerable knowledge of nuclear physics and the principles of radiation protection.

Skill in the use radiation field survey and laboratory equipment.

Ability to communicate effectively with others, both verbally and in writing, in order to convey technical information to professional persons as well as the general public.

Ability to establish and maintain effective relationships with government officials, private industry officials, professional personnel and others.

Ability to reason logically and accurately, analyze data, facts, information, issues and situations, draw valid conclusions, and propose viable solutions and courses of action.

Ability to understand, interpret, apply and explain laws, regulations, policies and procedures associated with radiological health and safety.

Ability to make presentations and lead discussion panels, workshops or seminars.

Minimum Qualifications:

Bachelor's degree or the equivalent from an accredited college with a major in radiological health, health physics, physics, chemistry, environmental science, or closely related field;

AND

Two years of professional experience which involved four or more of the following:

1. Inspecting, investigating or surveying the use of radiation producing equipment;
2. Determining compliance with rules and regulations governing radiation use;
3. Providing advice on safe practices concerning radiation;
4. Operating radiation field survey and laboratory instruments;
5. Carrying out procedures to control radioactive contamination or to reduce radiation exposures to the public;
6. Evaluation of hazards associated with use of radioactive materials.

At least one year must have been in medical and/or dental x-ray protection.

Substitution:

Master's degree or the equivalent from an accredited college in radiological health, health physics, physics, chemistry, environmental science, or a closely related field may substitute for the non-specific experience on a year for year basis;

AND

One year of experience in medical and/or dental x-ray protection involving four or more of the functions described above.

Required Job Qualifications:

(The special note is to be used to explain any additional information an applicant might need in order to understand or answer questions about the minimum qualifications.)

Special Note:

Special Requirement: Positions in these job classes may require lifting and carrying substantial weight (50 pounds or more); travel by boat or small aircraft.

Incumbents are exposed to occupational levels of ionizing radiation and electrical current in the normal and customary performance of the essential functions of their position.

Minimum Qualification Questions:

Do you have a bachelor's degree or the equivalent from an accredited college with a major in radiological health, health physics, physics, chemistry, environmental science, or closely related field?

AND

Do you have two years of professional experience which involved four or more of the following:

1. Inspecting, investigating or surveying the use of radiation producing equipment;

2. Determining compliance with rules and regulations governing radiation use;
3. Providing advice on safe practices concerning radiation;
4. Operating radiation field survey and laboratory instruments;
5. Carrying out procedures to control radioactive contamination or to reduce radiation exposures to the public;
6. Evaluation of hazards associated with use of radioactive materials;

AND

Did one of those years include experience in medical and/or dental x-ray protection?

Or Substitution:

Do you have a master's degree or the equivalent from an accredited college in radiological health, health physics, physics, chemistry, environmental science, or a closely related field may substitute or the non-specific experience on a year for year basis?

AND

Do you have experience in medical and/or dental x-ray protection involving four or more of the functions described above?